

CLAIMS

1. An optical pick-up device, comprising:
a first part (15);
a second part (17) carrying an optical system and being pivotally movable relative to said first part about a first pivot axis (19), said optical system defining a
5 beam path (21) for a laser beam in a generally longitudinal direction along said second part;
a laser source (25) located substantially at the point (P) where said first pivot axis (19) and said beam path (21) intersect; wherein said optical system comprises
a first folding mirror (121) for folding said beam path by 90° in a first plane
10 which is essentially parallel to said first pivot axis (19), and
a second folding mirror (122) for folding said beam path by 90° in a second plane which is essentially orthogonal to said first pivot axis (19).
2. A device as claimed in claim 1, further comprising a polarizing beam splitter
15 (110) adjacent to the laser source (25) for directing light reflected from an information carrier (9) towards an arrangement of photodiodes (112) for read-out.
3. A device as claimed in claim 2, further comprising a roof-prism for splitting
20 said reflected light into two separate beams towards the photodiodes.
4. A device as claimed in claim 2, further comprising a double roof-prism for
splitting said reflected light into four separate beams towards the photodiodes.
5. A device as claimed in claim 1, wherein the second part is also pivotally
25 movable relative to said first part about a second pivot axis (31), this second pivot axis intersecting said first pivot axis substantially orthogonally at the point (P) where said first pivot axis (19) and said beam path (21) intersect.
6. A device as claimed in claim 1, further comprising a collimating lens (37) for
30 collimating the emission from the laser source (25) upon entry into the second part (17).

7. A device as claimed in claim 6, wherein the collimating lens (37) and the laser source (25) are positioned such that said lens (37) is within the far field radiation pattern of the laser source (25) at all operational positions of the second part (17).
- 5 8. A device as claimed in claim 5, wherein the first pivot axis (19) is generally parallel to a minor axis of the far field radiation pattern of the laser source (25), and the second pivot axis (31) is generally parallel to a major axis of the far field radiation pattern of said laser source.
- 10 9. An optical drive, comprising a pick-up device as claimed in any one of the preceding claims.